

SEQUENCE LISTING

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Coia, et al

<120> V-like Domain Binding Molecules

<130> 674537-2002

<140> 09/623,611

<141> 2000-10-06

<150> PCT/AU99/00186

<151> 1999-03-05

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<151> 1998-03-06

<160> 141

<170> PatentIn version 3.0

<210> 1

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (1)..(6)

<223> conserved sequence in GDR3-like surface loop

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Met Tyr Pro Pro Pro Tyr

1

5

<210> 2

<211> 54

<212> DNA

<213> Artificial

<220>

<223> Oligonucleotide for 5' CTLA-4 amplification

<400> 2

ttattactcg cggcccagcc ggccatggcc gcaatgcacg tggcccagcc tgct

54

<210> 3

<211> 60

<212> DNA

<213> Artificial

<220>

<223> Oligonucleotide for 5' CTLA-4 amplification

<400> 3
ttattactcg cggccagcc ggccatggcc gcaatgcacg tggccagcc tgctgtgga 60

<210> 4
<211> 45
<212> DNA
<213> Artificial

<220>
<223> Oligonucleotide for 5' CTLA-4 amplification

<400> 4
tctcacagtg cacaggcaat gcacgtggcc cagcctgctg tggta 45

<210> 5
<211> 39
<212> DNA
<213> Artificial

<220>
<223> Oligonucleotide for 5' CTLA-4 amplification

<400> 5
tctcacagtg cacaggcaat gcacgtggcc cagcctgct 39

<210> 6
<211> 42
<212> DNA
<213> Artificial

<220>
<223> Oligonucleotide for 5' CTLA-4 amplification

<400> 6
gccagccgg ccgaattcgc aatgcacgtg gccagcctg ct 42

<210> 7
<211> 60
<212> DNA
<213> Artificial

<220>
<223> Oligonucleotide for 5' CTLA-4 amplification

<400> 7
gcagctaata cgactcacta taggaacaga ccaccatgga cgtggcccag cctgctgtgg 60

<210> 8
<211> 42
<212> DNA
<213> Artificial

<220>
 <223> Oligonucleotide for 3' CTLA-4 amplification

 <400> 8
 atctgcggcc gctacataaa tctgggtacc gttgccgatg cc 42

 <210> 9
 <211> 66
 <212> DNA
 <213> Artificial

 <220>
 <223> Oligonucleotide for 3' CTLA-4 amplification

 <400> 9
 gctgaattct gatcagtgat ggtgatggtg atgtgcggcc gcgtcagaat ctgggcacgg 60
 ttctgg 66

 <210> 10
 <211> 51
 <212> DNA
 <213> Artificial

 <220>
 <223> Oligonucleotide for 3' CTLA-4 amplification

 <400> 10
 gcccttgggc cgggagatgg tctgcttcag tggcgagggc aggtctgtgt g 51

 <210> 11
 <211> 49
 <212> DNA
 <213> Artificial

 <220>
 <223> Oligonucleotide for 3' CTLA-4 amplification

 <400> 11
 cgagggcagg tctgtgtggg tcacggtgca cgtgaacctc tccccggag 49

 <210> 12
 <211> 51
 <212> DNA
 <213> Artificial

 <220>
 <223> Oligonucleotide for 3' CTLA-4 amplification

 <400> 12
 cgtgaacctc tccccggagt tccagtcac ctcgcagatg ctggcctcac c 51

<210> 13
<211> 84
<212> DNA
<213> Artificial

<220>
<223> Oligonucleotide for CDR1- somatostatin

<400> 13
agctttgtgt gtgagtatgc agctggctgc aagaatttct tctggaagac tttcacatcc 60

tgtgccactg aggtccgggt gaca 84

<210> 14
<211> 84
<212> DNA
<213> Artificial

<220>
<223> Oligonucleotide for CDR3- somatostatin

<400> 14
ctgggtaccg ttgccgatgc cacaggatgt gaaagtcttc cagaagaaat tcttcagacc 60

agcctccacc ttgcagatgt agag 84

<210> 15
<211> 75
<212> DNA
<213> Artificial

<220>
<223> Oligonucleotide for CDR1- som-randomisation

<220>
<221> misc_feature
<222> (1)..(75)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<400> 15
agctttgtgt gtgagtatgc agctggctgc aagaatnnkn nknnknnknn knnkacatcc 60

tgtgccactg aggtc 75

<210> 16
<211> 75
<212> DNA
<213> Artificial

<220>
<223> Oligonucleotide for CDR3- som-randomisation

<220>

<221> misc_feature
<222> (1)..(75)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<400> 16
ctgggtaccg ttgccgatgc cacaggatgt mnnnnnnnnm nnnnnnnnat tcttcagcc 60
agcctccacc ttgca 75

<210> 17
<211> 21
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR2 haemagglutinin tag

<400> 17
gtaggttgcc gcacagactt c 21

<210> 18
<211> 65
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR2 haemagglutinin tag

<400> 18
gaagtctgtg cggcaaccta cccgtatgac gtccgacta cgccctagat gattccatct 60
gcacg 65

<210> 19
<211> 78
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR-1 anti-lysozyme

<400> 19
gccagctttg tgtgtgagta tgccagtggc tacaccatcg ggccgtactg catgggcgtc 60
cgggtgacag tgcttcgg 78

<210> 20
<211> 60
<212> DNA
<213> Artificial

<220>

<223> oligonucleotide for CDR-2 anti-lysozyme

<400> 20
tgtgcggcag ccatcaacat gggcggtggc atcaccttcc tagatgattc catctgcacg 60

<210> 21
<211> 60
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR-2 anti-lysozyme

<400> 21
atctaggaag gtgatgccac cgcccatggt gatggctgcc gcacagactt cagtcacctg 60

<210> 22
<211> 69
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR-3 anti-lysozyme

<400> 22
cagcccgtgg ccgcactcgt agtaggacgc gtagatcgtc gagtccacct tgcagatgta 60
gagtcccgt 69

<210> 23
<211> 72
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR-3 anti-lysozyme

<400> 23
aatctgggta ccgttgccga tgccggagtc atagccgtac cctcccgtgg acagcccgtg 60
gccgcactcg ta 72

<210> 24
<211> 78
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR-1 anti-melanoma

<400> 24
gccagctttg tgtgtgagta tgccagtgga ttcaccttca gttcctacgc catgtccgtc 60

cggggtgacag tgcttcgg

78

<210> 25
<211> 51
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR-2 anti-melanoma

<400> 25
gccatctccg gatccggagg ctgcacctac ctagatgatt ccatctgcac g

51

<210> 26
<211> 54
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR-2 anti-melanoma

<400> 26
gtaggtcgag cctccggatc cggagatggc tgccgcacag acttcagtca cctg

54

<210> 27
<211> 69
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR-3 anti-melanoma

<400> 27
cacgtccatg tagtagtctc cctcctcgcc gcgcagtccc cagccacact tgcagatgta

60

gagtcccg

69

<210> 28
<211> 51
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR-3 anti-melanoma

<400> 28
aatctgggta ccgttgccga tgcccacgtc catgtagtag tctccctcct c

51

<210> 29
<211> 66
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR1 randomisation

<220>
<221> misc_feature
<222> (1)..(66)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<400> 29
agctttgtgt gtgagtatgc annknnknnk nnknnknnkn nknnkgccac tgaggtccgg 60
gtgaca 66

<210> 30
<211> 68
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR1 randomisation

<400> 30
cacgtggccc agcctgctgt ggtactggcc agcagccgag gcacgcccag ctttgtgtgt 60
gagtatgc 68

<210> 31
<211> 66
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR1 randomisation

<220>
<221> misc_feature
<222> (1)..(66)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<400> 31
gtgtgtgagt acgcgtncnn snnsnnsnns nnsnnstgcn nsgctactga ggttcgtgtg 60
accgtc 66

<210> 32
<211> 73
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR1 randomisation

<220>
<221> misc_feature
<222> (1)..(73)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<400> 32
gccagctttg tgtgtgagta tgcannknnk nnknnknnkn nknnkggcgt cggggtgaca 60
gtgcttcggc agg 73

<210> 33
<211> 82
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR1 randomisation

<220>
<221> misc_feature
<222> (1)..(82)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<400> 33
gccagctttg tgtgtgagta tgcannknnk nnknnknnkn nknnknnktg cnnkggcgtc 60
cgggtgacag tgcttcggca gg 82

<210> 34
<211> 82
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR1 randomisation

<220>
<221> misc_feature
<222> (1)..(82)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<400> 34
gccagctttg tgtgtgagta tgcannknnk ywynnkywyn nknnkywytg cnnkggcgtc 60
cgggtgacag tgcttcggca gg 82

<210> 35
<211> 70
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR1 randomisation

<220>
<221> misc_feature
<222> (1)..(70)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<400> 35
gccagctttg tgtgtgagta tgcattctcca gccnnknnkn nknnkggtccg ggtgacagtg 60
cttcggcagg 70

<210> 36
<211> 70
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR1 randomisation

<220>
<221> misc_feature
<222> (1)..(70)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<400> 36
gccagctttg tgtgtgagta tgcattctcca gccnnktgcn nknnkggtccg ggtgacagtg 60
cttcggcagg 70

<210> 37
<211> 67
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR2 randomisation

<220>
<221> misc_feature
<222> (1)..(67)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<400> 37
tgactgaagt ctgtgcggca acctacnnkn nkgggnnkga gttgaccttc ctagatgatt 60
ccatctg 67

<210> 38

<211> 30
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR2 randomisation

<400> 38
gtaggttgcc gcacagactt cagtcacctg

30

<210> 39
<211> 68
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR2 randomisation

<220>
<221> misc_feature
<222> (1)..(68)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<400> 39
gtgactgaag tctgtgcggc atgctacnnk nnkgggnnkg agttgacctt cctagatgat
tccatctg

60

68

<210> 40
<211> 29
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR2 randomisation

<400> 40
tagcatgccg cacagacttc agtcacctg

29

<210> 41
<211> 69
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR3 randomisation

<220>
<221> misc_feature
<222> (1)..(69)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.


<400> 41
ctgggtaccg ttgccgatgc cmnnmnnmnn mnnmnnmnnm nnnnnnnnct ccaccttgca 60
gatgtagag 69

<210> 42
<211> 67
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR3 randomisation

<220>
<221> misc_feature
<222> (1)..(67)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.

<220>
<221> misc_feature
<222> (1)..(67)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't'.
nucleotide 's' can be either nucleotide 'g' or 'c'

 <400> 42
aggtggaann snnsnnsnns nnsnnstgcn nsnnnnnnnn snnsnnsnns ggcacggca 60
acggtac 67

<210> 43
<211> 78
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR3 randomisation

<220>
<221> misc_feature
<222> (1)..(78)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't' and
nucleotide 'm' can be any nucleotide 'a' or 'c'.

<400> 43
aatctgggta ccgttgccga tgccmnnmnn mnnmnnmnnm nnnnnnnnnm nmnnacacctt 60
gcagatgtag agtcccggt 78

<210> 44
<211> 93
<212> DNA

<213> Artificial

<220>

<223> oligonucleotide for CDR3 randomisation

<220>

<221> misc_feature

<222> (1)..(93)

<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't' and
nucleotide 'm' can be any nucleotide 'a' or 'c'.

<400> 44

aatctgggta ccgttgccga tgcccagmnn mnnmnnmnnm nnnnnnnnnn 60

mnnmnnctcc accttgccga tgtagagtcc cgt 93

<210> 45

<211> 81

<212> DNA

<213> Artificial

<220>

<223> oligonucleotide for CDR3 randomisation

<220>

<221> misc_feature

<222> (1)..(81)

<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't' and
nucleotide 'm' can be any nucleotide 'a' or 'c'.

<400> 45

aatctgggta ccgttgccga tgccmnnmnn mnnmnnngcam nnnnnnnnnn 60

cttgcatg tagagtcccg t 81

<210> 46

<211> 87

<212> DNA

<213> Artificial

<220>

<223> oligonucleotide for CDR3 randomisation

<220>

<221> misc_feature

<222> (1)..(87)

<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't' and
nucleotide 'm' can be any nucleotide 'a' or 'c'.

<400> 46

aatctgggta ccgttgccga tgccmnnmnn mnnmnnmnnng camnnnnnnn 60

mnnacaccttg cagatgtaga gtcccgt

87

<210> 47
<211> 99
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR3 randomisation

<220>
<221> misc_feature
<222> (1)..(99)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't' and
nucleotide 'm' can be any nucleotide 'a' or 'c'.

<400> 47
aatctgggta ccgttgccga tgccmnnmnn mnnmnnmnnm nngcamnnmn nnnnnnnnnn 60

mnnmnnmnnm nnnnncacct tgcagatgta gagtcccg 99

<210> 48
<211> 87
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CDR3 randomisation

<220>
<221> misc_feature
<222> (1)..(87)
<223> nucleotide 'n' can be any nucleotide 'a', 'c', 'g', or 't',
nucleotide 'm' can be any nucleotide 'a' or 'c',
nucleotide 'r' can be any nucleotide 'a' or 'g' and
nucleotide 'w' can be any nucleotide 'a' or 't'.

<400> 48
aatctgggta ccgttgccga tgccrwrnnn mnnmnnmnnng camnnmnnmn nnnnnnnnnn 60

mnnacaccttg cagatgtaga gtcccgt 87

<210> 49
<211> 70
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CTLA-4 codon change

<400> 49
atgcacgtgg cccagcctgc tgtggtgctg gccagcagcc gtggcatcgc cagctttgtg 60

tgtgaatatg

70

<210> 50
<211> 77
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CTLA-4 codon change

<400> 50
gccagctttg tgtgtgaata tgcgtctggc tataccatcg gcccgactg catgggtgtg 60
cgtgtgaccg tgctgcg 77

<210> 51
<211> 54
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CTLA-4 codon change

<400> 51
gtgcgtgtga ccgtgctgcg tcaggcggat agccaggtga ccgaagtttg cgcg 54

<210> 52
<211> 75
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CTLA-4 codon change

<400> 52
caggtgaccg aagtttgccg gccagcgatc aacatgggcy gtggcatcac cttcctggat 60
gattccatct gcacc 75

<210> 53
<211> 66
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide for CTLA-4 codon change

<400> 53
cagaccctgg atggtcaggt tcacctgggt accgctggag gtgccggtgc agatggaatc 60
atccag 66

<210> 54
<211> 57
<212> DNA
<213> Artificial

<220>

<223> oligonucleotide for CTLA-4 codon change

<400> 54

cactttgcag atgtacagac cggatatccat ggcacgcaga ccctggatgg tcaggtt 57

<210> 55
<211> 66
<212> DNA
<213> Artificial

<220>

<223> oligonucleotide for CTLA-4 codon change

<400> 55

caggccatga ccgcattcgt aataagacgc atagatggtg ctatccactt tgcagatgta 60

cagacc 66

<210> 56
<211> 69
<212> DNA
<213> Artificial

<220>

<223> oligonucleotide for CTLA-4 codon change

<400> 56

ctgggtaccg ttgccgatgc cagaatcgta gccatagcca ccggtggaca ggccatgacc 60

gcattcgta 69

<210> 57
<211> 672
<212> DNA
<213> Homo sapiens

<220>

<221> CDS

<222> (109)..(453)

<223> Polynucleotide encoding Human CTLA-4 cDNA

<400> 57

atggcttgcc ttggatttca gcggcacaag gctcagctga acctgggtgc caggacctgg 60

ccctgcactc tcctgttttt tttctctctc atccctgtct tctgcaaa gca atg cac 117
Ala Met His

gtg gcc cag cct gct gtg gta ctg gcc agc agc cga ggc atc gcc agc 165
Val Ala Gln Pro Ala Val Val Leu Ala Ser Ser Arg Gly Ile Ala Ser
5 10 15

ttt gtg tgt gag tat gca tct cca ggc aaa gcc act gag gtc cgg gtg 213
Phe Val Cys Glu Tyr Ala Ser Pro Gly Lys Ala Thr Glu Val Arg Val
20 25 30 35

aca gtg ctt cgg cag gct gac agc cag gtg act gaa gtc tgt gcg gca 261
Thr Val Leu Arg Gln Ala Asp Ser Gln Val Thr Glu Val Cys Ala Ala
40 45 50

acc tac atg acg ggg aat gag ttg acc ttc cta gat gat tcc atc tgc 309
Thr Tyr Met Thr Gly Asn Glu Leu Thr Phe Leu Asp Asp Ser Ile Cys
55 60 65

acg ggc acc tcc agt gga aat caa gtg aac ctc act atc caa gga ctg 357
Thr Gly Thr Ser Ser Gly Asn Gln Val Asn Leu Thr Ile Gln Gly Leu
70 75 80

agg gcc atg gac acg gga ctc tac atc tgc aag gtg gag ctc atg tac 405
Arg Ala Met Asp Thr Gly Leu Tyr Ile Cys Lys Val Glu Leu Met Tyr
85 90 95

cca ccg cca tac tac ctg ggc ata ggc aac gga acc cag att tat gta 453
Pro Pro Pro Tyr Tyr Leu Gly Ile Gly Asn Gly Thr Gln Ile Tyr Val
100 105 110 115

attgatccag aaccgtgccc agattctgac ttctctctct ggatccttgc agcagttagt 513

tcgggggttgt ttttttatag ctttctctctc acagctgttt ctttgagcaa aatgctaaag 573

aaaagaagcc ctcttacaac aggggtctat gtgaaaatgc ccccaacaga gccagaatgt 633

gaaaagcaat ttcagcctta ttttattccc atcaattga 672

<210> 58
<211> 115
<212> PRT
<213> Homo sapiens

<400> 58

Ala Met His Val Ala Gln Pro Ala Val Val Leu Ala Ser Ser Arg Gly
1 5 10 15

Ile Ala Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Lys Ala Thr Glu
20 25 30

Val Arg Val Thr Val Leu Arg Gln Ala Asp Ser Gln Val Thr Glu Val
35 40 45

Cys Ala Ala Thr Tyr Met Thr Gly Asn Glu Leu Thr Phe Leu Asp Asp
50 55 60

Ser Ile Cys Thr Gly Thr Ser Ser Gly Asn Gln Val Asn Leu Thr Ile
65 70 75 80

Gln Gly Leu Arg Ala Met Asp Thr Gly Leu Tyr Ile Cys Lys Val Glu
85 90 95

Leu Met Tyr Pro Pro Pro Tyr Tyr Leu Gly Ile Gly Asn Gly Thr Gln
100 105 110

Ile Tyr Val
115

<210> 59
<211> 7
<212> PRT
<213> Homo sapiens

<400> 59

Ser Pro Gly Lys Ala Thr Glu
1 5

<210> 60
<211> 14
<212> PRT
<213> Homo sapiens

<400> 60

Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
1 5 10

<210> 61
<211> 9
<212> PRT
<213> Homo sapiens

<400> 61

Tyr Met Met Gly Asn Glu Leu Thr Phe
1 5

<210> 62
<211> 9
<212> PRT
<213> Homo sapiens

<400> 62

Leu Met Tyr Pro Pro Pro Tyr Tyr Leu
1 5

<210> 63
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Haemagglutinin tag

<400> 63

Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

<210> 64
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Sequence from anti-lysozyme antibody

<400> 64

Ser Gly Tyr Thr Ile Gly Pro Tyr Cys Met Gly
1 5 10

<210> 65
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Sequence from anti-lysozyme antibody

<400> 65

Thr Tyr Met Met Gly Asn Glu Leu Thr Phe
1 5 10

<210> 66
<211> 24
<212> PRT
<213> Artificial

<220>
<223> Sequence from anti-lysozyme antibody

<400> 66

Asp Ser Thr Ile Tyr Ala Ser Tyr Tyr Glu Cys Gly His Gly Leu Ser
1 5 10 15

Thr Gly Gly Tyr Gly Tyr Asp Ser

20

<210> 67
<211> 11
<212> PRT
<213> Homo sapiens

<400> 67

Ser Gly Phe Thr Phe Ser Ser Tyr Ala Met Ser
1 5 10

<210> 68
<211> 10
<212> PRT
<213> Homo sapiens

<400> 68

Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr
1 5 10

<210> 69
<211> 15
<212> PRT
<213> Homo sapiens

<400> 69

Gly Trp Gly Leu Arg Gly Glu Glu Gly Asp Tyr Tyr Met Asp Val
1 5 10 15

<210> 70
<211> 21
<212> PRT
<213> Artificial

<220>
<223> Flag tag

<400> 70

Ala Ala Ala Asp Tyr Lys Asp Asp Asp Asp Lys Ala Ala Asp Tyr Lys
1 5 10 15

Asp Asp Asp Asp Lys
20

<210> 71
<211> 14
<212> PRT
<213> Homo sapiens

<400> 71

Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Lys Ala Thr Glu
1 5 10

<210> 72
<211> 18
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein

<400> 72

Ser Phe Val Cys Glu Tyr Ala Ser Gly Tyr Thr Ile Gly Pro Tyr Cys
1 5 10 15

Met Gly

<210> 73
<211> 24
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein

<400> 73

Ser Phe Val Cys Glu Tyr Ala Ala Gly Cys Lys Asn Phe Phe Trp Lys
1 5 10 15

Thr Phe Thr Ser Cys Ala Thr Glu
20

<210> 74
<211> 18
<212> PRT
<213> Homo sapiens

<400> 74

Ser Phe Val Cys Glu Tyr Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ala
1 5 10 15

Met Ser

<210> 75
<211> 15
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(15)

<223> ' X' can be any amino acid

<400> 75

Ser Phe Val Cys Glu Tyr Ala Xaa Xaa Xaa Xaa Xaa Xaa Gly
1 5 10 15

<210> 76

<211> 18

<212> PRT

<213> Artificial

<220>

<223> sequence from fusion protein containing the random sequence

<220>

<221> UNSURE

<222> (1)..(18)

<223> ' X' can be any amino acid

<400> 76

Ser Phe Val Cys Glu Tyr Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
1 5 10 15

Xaa Gly

<210> 77

<211> 21

<212> PRT

<213> Artificial

<220>

<223> sequence from fusion protein containing the random sequence

<220>

<221> UNSURE

<222> (1)..(21)

<223> ' X' can be any amino acid

<400> 77

Ser Phe Val Cys Glu Tyr Ala Xaa Xaa Ala Arg Xaa Ala Arg Xaa Xaa
1 5 10 15

Ala Arg Cys Xaa Gly
20

<210> 78

<211> 14

<212> PRT

<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence


<220>
<221> UNSURE
<222> (1)..(14)
<223> 'X' can be any amino acid

<400> 78

Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Xaa Xaa Xaa Xaa
1 5 10

<210> 79
<211> 14
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

 <220>
<221> UNSURE
<222> (1)..(14)
<223> ' X' can be any amino acid

<400> 79

Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Xaa Cys Xaa Xaa
1 5 10

<210> 80
<211> 18
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(18)
<223> ' X' can be any amino acid

<400> 80

Ser Phe Val Cys Glu Tyr Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala
1 5 10 15

Thr Glu

<210> 81
<211> 18

<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(18)
<223> ' X' can be any amino acid

<400> 81

Ser Phe Val Cys Glu Tyr Ala Xaa Xaa Xaa Xaa Xaa Cys Xaa Ala
1 5 10 15

Thr Glu

<210> 82
<211> 24
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(24)
<223> ' X' can be any amino acid

<400> 82

Ser Phe Val Cys Glu Tyr Ala Ala Gly Cys Lys Asn Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Thr Ser Cys Ala Thr Glu
20

<210> 83
<211> 25
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein

<400> 83

Gln Val Thr Glu Val Cys Ala Ala Thr Tyr Met Met Gly Asn Glu Leu
1 5 10 15

Thr Phe Leu Asp Asp Ser Ile Cys Thr
20 25

<210> 84
<211> 25
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein

<400> 84

Gln Val Thr Glu Val Cys Ala Ala Ala Ile Asn Met Gly Gly Gly Ile
1 5 10 15

Thr Phe Leu Asp Asp Ser Ile Cys Thr
20 25

<210> 85
<211> 25
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein

<400> 85

Gln Val Thr Glu Val Cys Ala Ala Thr Tyr Pro Tyr Asp Val Pro Asp
1 5 10 15

Tyr Ala Leu Asp Asp Ser Ile Cys Thr
20 25

<210> 86
<211> 25
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein

<400> 86

Gln Val Thr Glu Val Cys Ala Ala Ala Ile Ser Gly Ser Gly Gly Ser
1 5 10 15

Thr Tyr Leu Asp Asp Ser Ile Cys Thr
20 25

<210> 87
<211> 25
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence 1

<220>
<221> UNSURE
<222> (1)..(25)
<223> 'n' can be any amino acid


<400> 87

Gln Val Thr Glu Val Cys Ala Ala Thr Tyr Xaa Xaa Gly Xaa Glu Leu
1 5 10 15

Thr Phe Leu Asp Asp Ser Ile Cys Thr
20 25

<210> 88
<211> 25
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence 2

 <220>
<221> UNSURE
<222> (1)..(25)
<223> amino acid 'X' can be any amino acid

<400> 88

Gln Val Thr Glu Val Cys Ala Ala Cys Tyr Xaa Xaa Gly Xaa Glu Leu
1 5 10 15

Thr Phe Leu Asp Asp Ser Ile Cys Thr
20 25

<210> 89
<211> 13
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein

<400> 89

Cys Lys Val Glu Leu Met Tyr Pro Pro Pro Tyr Tyr Leu
1 5 10

<210> 90
<211> 27
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein

<400> 90

Cys Lys Val Asp Ser Thr Ile Tyr Ala Ser Tyr Tyr Glu Cys Gly His
1 5 10 15

Gly Leu Ser Thr Gly Gly Tyr Gly Tyr Asp Ser
20 25

<210> 91

<211> 18

<212> PRT

<213> Artificial

<220>

<223> sequence from fusion protein


<220>

<221> UNSURE

<222> (1)..(18)

<223> ' X' can be any amino acid

<400> 91

 Cys Lys Val Glu Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr
1 5 10 15

Ser Cys

<210> 92

<211> 18

<212> PRT

<213> Artificial

<220>

<223> sequence from fusion protein

<220>

<221> UNSURE

<222> (1)..(18)

<223> ' X' can be any amino acid

<400> 92

Cys Lys Val Gly Trp Gly Leu Arg Gly Glu Glu Gly Asp Tyr Tyr Met
1 5 10 15

Asp Val

<210> 93

<211> 14

<212> PRT

<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(14)
<223> ' X' can be any amino acid

<400> 93

Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 94
<211> 18
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

2/11
<220>
<221> UNSURE
<222> (1)..(18)
<223> ' X' can be any amino acid

<400> 94

Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa

<210> 95
<211> 14
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(14)
<223> ' X' can be any amino acid

<400> 95

Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
1 5 10

<210> 96
<211> 15

<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(15)
<223> ' X' can be any amino acid

<400> 96

Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
1 5 10 15

<210> 97
<211> 17
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(17)
<223> ' X' can be any amino acid

<400> 97

Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
1 5 10 15

Xaa

<210> 98
<211> 21
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(21)
<223> ' X' can be any amino acid

<400> 98

Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa
20

<210> 99
<211> 13
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(13)
<223> ' X' can be any amino acid

<400> 99

Cys Lys Val Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

Blot
<210> 100
<211> 18
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(18)
<223> ' X' can be any amino acid

<400> 100

Cys Lys Val Glu Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa

<210> 101
<211> 18
<212> PRT
<213> Artificial

<220>
<223> sequence from fusion protein containing the random sequence

<220>
<221> UNSURE
<222> (1)..(18)
<223> ' X' can be any amino acid

<400> 101

Cys Lys Val Glu Ala Gly Cys Lys Asn Xaa Xaa Xaa Xaa Xaa Xaa Thr
1 5 10 15

Ser Cys

<210> 102

<211> 10

<212> PRT

<213> Artificial

<220>

<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 102

Leu Pro Ser Ser Asp Thr Arg Ala Tyr Ser
1 5 10

<210> 103

<211> 8

<212> PRT

<213> Artificial

<220>

<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 103

Gln Glu Ser Gly Gly Arg Pro Gly
1 5

<210> 104

<211> 10

<212> PRT

<213> Artificial

<220>

<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 104

Leu Pro Arg Gly Pro Pro Leu Leu Ser Leu
1 5 10

<210> 105

<211> 7

<212> PRT

<213> Artificial

<220>

<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 105

Ser Pro Gly Arg Cys Leu Asn
1 5

<210> 106
<211> 8
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<220>
<221> UNSURE
<222> (8)..(8)
<223> Stop codon but Glu when expressed in Tg-1 or JM109 strains of E.c
ol

<400> 106

Glu Trp Lys Arg Glu His Gly Gly
1 5

<210> 107
<211> 10
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 107

Leu Cys Pro Gly Ala Cys Gly Cys Val Tyr
1 5 10

<210> 108
<211> 8
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<220>
<221> UNSURE
<222> (4)..(4)
<223> stop codon but Glu when expressed in Tg-1 or JM109 strains of E.c
ol

<400> 108

Asn Ser Gly Glu Asn Glu Gly Gly
1 5

<210> 109
<211> 8
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 109

Asp Lys Pro Val Thr Lys Ser Gly
1 5

<210> 110
<211> 7
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

311
Don't
<220>
<221> UNSURE
<222> (7)..(7)
<223> Stop codon but Glu when expressed in Tg-1 or JM109 strains of E.c
ol

<400> 110

Ser Pro Gly Ala Cys Pro Glu
1 5

<210> 111
<211> 7
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 111

Ser Pro Gly Lys Cys Asp Gln
1 5

<210> 112
<211> 7
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 112

Ser Pro Gly Met Cys Ala Arg
1 5

<210> 113
<211> 11
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<220>
<221> UNSURE
<222> (8)..(8)
<223> Stop codon but Glu when expressed in Tg-1 or JM109 strains of E.c
ol

<400> 113

Pro Phe Leu Phe Leu Pro Cys Glu Phe Phe Phe
1 5 10

<210> 114
<211> 11
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 114

Trp Thr Leu Gly His His Lys Leu Cys Glu Gly
1 5 10

<210> 115
<211> 10
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 115

Leu Phe Thr Cys Leu Leu Ala Leu Cys Ser
1 5 10

<210> 116
<211> 7
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 116

Ser Pro Gly Glu Cys Tyr Gly
1 5


<210> 117
<211> 13
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<220>
<221> UNSURE
<222> (1)..(13)
<223> ' X' can be any amino acid

<400> 117

Ser Trp Leu Ser Thr Thr Xaa Cys Leu Ser Ser Cys Ser
1 5 10

 <210> 118
<211> 7
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<220>
<221> UNSURE
<222> (4)..(4)
<223> Stop codon but Glu when expressed in Tg-1 or JM109 strains of E.c
ol

<400> 118

Ser Pro Gly Glu Cys Gln Asp
1 5

<210> 119
<211> 13
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 119

Leu Leu Gly Ser Leu Leu Ser Cys Phe Ala Ser Leu Ser
1 5 10

<210> 120
<211> 13
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<220>
<221> UNSURE
<222> (1)..(13)
<223> ' X' can be any amino acid

<400> 120

Ser Pro Gly Ser Leu Leu Ser Cys Phe Ala Ser Xaa Ser
1 5 10

<210> 121
<211> 7
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 121

Ser Pro Gly Arg Cys Thr Asp
1 5

<210> 122
<211> 13
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 122

Val Ile Cys His Ser Ser Val Cys Leu Ser Asp Val Cys
1 5 10

<210> 123
<211> 13
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 123

Val Ile Cys His Ser Ser Val Cys Leu Ser Glu Val Cys
1 5 10

<210> 124
<211> 10
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 124

Asp Leu Pro Ser Tyr Leu Ala Cys Ser Ile
1 5 10

<210> 125
<211> 7
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 125

Ser Pro Gly Arg Cys Asp Ala
1 5

<210> 126
<211> 14
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 126

Ala Leu Cys Trp Asp Val Phe Tyr Cys Ser Phe Pro Ser Tyr
1 5 10

<210> 127
<211> 11
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 127

Glu Leu Phe Gly His Ala Arg Tyr Cys Lys Gly
1 5 10

<210> 128
<211> 15
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<220>
<221> UNSURE
<222> (7)..(7)
<223> Stop codon but Glu when expressed in Tg-1 or JM109 strains of E.c
ol

<400> 128

Val Ser Ile Thr Ser Pro Glu Leu Cys Pro Val Lys Val Phe Asp
1 5 10 15

<210> 129
<211> 7
<212> PRT
<213> Artificial

31 cont
<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<220>
<221> UNSURE
<222> (6)..(6)
<223> Stop codon but Glu when expressed in Tg-1 or JM109 strains of E.c
ol

<400> 129

Ser Pro Gly Lys Val Glu Asn
1 5

<210> 130
<211> 8
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 130

Leu Phe Val Pro Phe Val Ser Pro
1 5

<210> 131
<211> 7
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 131

Ser Pro Gly Asp Leu Trp Val
1 5

<210> 132

<211> 15

<212> PRT

<213> Artificial

<220>

<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 132

Glu Ser Gly Leu Ser Pro Val Ser Pro Cys Ser Leu Tyr Ser Leu
1 5 10 15

<210> 133

<211> 8

<212> PRT

<213> Artificial

<220>

<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 133

Thr Ser Ala Asn Gly Pro Tyr Gly
1 5

<210> 134

<211> 10

<212> PRT

<213> Artificial

<220>

<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 134

Pro Trp Ala Tyr Arg Phe Leu Ala Val Leu
1 5 10

<210> 135

<211> 8

<212> PRT

<213> Artificial

<220>

<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 135

Arg Lys Thr Arg Glu Lys Tyr Gly
1 5

<210> 136
<211> 12
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence


<400> 136

Glu Leu Met Tyr Pro Pro Pro Tyr Tyr Leu Gly Ile
1 5 10

<210> 137
<211> 7
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 137

 Ser Pro Gly Gln Glu Leu Thr
1 5

<210> 138
<211> 15
<212> PRT
<213> Artificial

<220>
<223> CDR1 and CDR3 inserts possessing randomly generated sequence

<400> 138

Glu Leu Phe Phe Leu Leu Tyr Ala Pro Cys Tyr Leu Phe Gln Arg
1 5 10 15

<210> 139
<211> 5
<212> PRT
<213> Homo sapiens

<220>
<221> DOMAIN
<222> (1)..(5)
<223> V-like beta strand sequence

<400> 139

Ala Gly Phe Cys Cys
1 5

<210> 140
<211> 4

<212> PRT
<213> Homo sapiens

<400> 140

Phe Trp Lys Thr
1

<210> 141
<211> 5
<212> PRT
<213> Homo sapiens

<400> 141

Gly Phe Cys Cys Cys
1 5

Blind